

Specification

for cladding, floors, stairs, and other manufactured goods in PIETRANOVA® and ALPI 4.0 by Grassi Pietre srl

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General index:

1. Specification for ventilated facades in PIETRANOVA® and ALPI 4.0

- a. Ventilated cladding thickness 3 cm or 4 cm

2. Specification for glued cladding and thresholds in PIETRANOVA® and ALPI 4.0

- a. Glued cladding without metal anchors thickness 2 cm
- b. Glued cladding with metal anchors thickness 3 cm
- c. Thresholds, windowsills and copings thickness 4 cm

3. Specification for floorings in PIETRANOVA® and ALPI 4.0

- a. Floors glued on screed thickness 2 cm
- b. Exterior paving thickness 3 cm (only PIETRANOVA®)
- c. Interior / bathroom floor or cladding thickness 2 cm

4. Specification for stairs and skirting in PIETRANOVA® and ALPI 4.0

- a. Classical staircase with bullnose
- b. Skirting for classical staircase
- c. Free length skirting half bull nose
- d. Modern staircase
- e. Skirting of modern staircase
- f. Free length moderns skirting

5. Specification for solid elements in PIETRANOVA® and ALPI 4.0 for frames and windows surroundings

- a. straight and non-shaped linear elements
- b. shaped linear elements
- c. Lathed items (columns)

1. Specification for ventilated facades in PIETRANOVA® and ALPI 4.0

Code	Product specification
1a	<p>Ventilated cladding thickness 4 cm</p> <p>Supply and installation of ventilated wall consists of cut to size pieces in cement agglomerate of Vicenza Stone, name PIETRANOVA® White, Yellow or Grey or Alpi 4.0 Company Grassi Pietre Srl, prior sample approval by construction director, modular dimensions like 120 / 80x40 / 60x4 cm, honed surface, light chamfered edges in the perimeter, including passing kerf below and above or positioned holes for pins.</p> <p>It is also included the supply and installation of galvanized steel structure and support and retaining punctual stainless steel AISI 304 brackets, which must be adjustable along two axis, anchored to the existing walls by mechanical steel dowels with anti-slip sock rosette or dowels with elastic stocking and poliester two component resin, related to the threaded rod and tightening nut steel.</p> <p>Including the supply and installation of polystyrene battened class E insulation, 12 cm thick, or glass wool panels treated with thermosetting binders and coated with water-repellent glass fleece, fixed to the supporting structure by means of suitable anchors, including foaming of the carvings.</p> <p>Including surface treatment of the stone with water-based or or solvent-based hydro repellent products company FILA.</p> <p>Measurement for full with the exception of the holes bigger than 4 square meters.</p> <p>The price includes: measuring - project – cut to size list producing - supply and installation of the substructure - supply and installation of thermal insulation - supply and installation of stone work - technical tests - grouting (if necessary) – silicone - Treatment - packaging – transport.</p>

2. Specification for glued cladding and thresholds in PIETRANOVA® e ALPI 4.0

Code	Product specification
2a	<p>Glued cladding without metal anchors thickness 2 cm</p> <p>Supply and installation of glued wall consisting of cut to size pieces in cement agglomerate of Vicenza Stone, type PIETRANOVA® White, Yellow or Grey or Alpi 4.0 Company GRASSI PIETRE SRL, sample to be approved by construction director, modular dimension like 60x30x2 / 60x40x2 cm honed finished, only sawn or beveled edges, "battered" glued with a glue like Mapei Ultraflex S2 Mono or Adria KEDY S2 Mono or Mapei Elastorapid on plaster (suitable for gluing of stone materials, tear-proof, dust-free, the cost of plaster construction is excluded from this price). Including the cost for expansion joints (about every 20 square meters and in any case on all structural joints of the building) to be grouted with a neutral white silicone (or different colour chosen by construction director) like Mapei Mapesil LM. Including the final grouting (dimensions approx 3 mm) with pre-mixed products (like Mapei Keracolor FF) of the color chosen by construction director.</p> <p>The price includes the final cleaning of the cladding with water washing with a sponge after grouting.</p> <p>Including surface sealant of the cladding with water-based or or solvent-based hydro repellent products company FILA.</p> <p>Measurement for full with the exception of the holes bigger than 4 square meters.</p> <p>The price includes: relief - project - records - supply and laying stone - grouting - supply glue, silicone, expansion joints - treatment - packaging – transportation</p> <p>The price includes: measuring - project – cut to size list producing - supply and installation of stone work - grouting – supply of glue, silicone, expansion joints – sealant - packaging – transportation.</p>
2b	<p>Glued cladding with metal anchors thickness 3 cm</p> <p>Supply and installation of glued wall work consisting of cut to size tiles in cement agglomerate of Vicenza Stone, type PIETRANOVA® White, Yellow or Grey or Alpi 4.0 Company GRASSI PIETRE SRL, sample to be approved in advance by the construction director, dimension like 120 / 80x60x3 cm, honed surface, chamfered edges, "battered" glued with glue like Mapei Ultraflex S2 Mono or Adria KEDY S2 Mono or Mapei Elastorapid on plaster (suitable for gluing of stone materials, tear-proof, dust-free, the cost of producing and installing plaster is not included in this price). The elements in Pietranova must be anchored with minimum 2 L-shaped stainless steel AISI 304 hooks (sticks) diam. 3/4 mm, minimum two holes on each slabs these holes to be correctly dimensioned on slabs of Pietranova and on the walls, these to be filled with glue.</p> <p>Including the cost to create expansion joints (approx each 20 square meters and in any case on all structural joints of the building) to be grouted with a special neutral white silicone (or in any color chosen by construction director, like Mapei Mapesil LM. Including the final grouting (dimension approx 3 mm) with pre-mixed product (like Mapei Keracolor FF) of the color chosen by the construction director.</p> <p>The price includes the final cleaning of the coating with water washing with a sponge after grouting.</p> <p>Including surface sealant of the stone with water-based or solvent-based hydro repellent products company FILA.</p> <p>Measurement for full with the exception of the holes bigger than 4 square meters.</p> <p>The price includes: measuring - project – cut to size list producing - supply and installation of brackets - supply and installation of stone work - grouting – supply of glue, silicone, expansion joints – sealant - packaging – transportation</p>

2c

Thresholds, windowsills and copings thickness 4 / 6 cm

Supply and installation of thresholds, window sills, shoulders and covers with cut to size pieces in cement agglomerate of Vicenza Stone, type PIETRANOVA® White, Yellow or Grey or Alpi 4.0 Company GRASSI PIETRE SRL, sample to be approved by the construction director, thickness 4 / 6 cm, honed surface and seen sides, beveled edges, laid on satin lime mortar (this excluded, to be produced and installed by the enterprise) by "battered" gluing of white glue like Mapei Ultraflex S2 Mono or Adria KEDY S2 Mono or Mapei Elastorapid. Including the lower cut for dripnose in the sills and covers.

Including the securing of any hooks and fixing keys (for shoulders and lintels) made of stainless steel AISI 304 diam. 3/4 mm, fixed to the structure with epoxy mastic. Including the final grouting (size about 2 mm) with pre-mixed product (like Mapei Keracolor FF) of the color chosen by the construction director. Including surface treatment of the stone with water-based or solvent base hydro repellent products company FILA.

Measurement surface really installed.

The price includes: measuring - project - cut to size list producing - supply and installation of the stone - supply and mounting of brackets - grouting - supply of glue, silicone, expansion joints - treatment - packaging - transportation

3. Specification for floorings / interior claddings in PIETRANOVA® and ALPI 4.0

Code	Product specifications
3a	<p>Floors glued on screed thickness 2 cm</p> <p>Supply and installation of paving in cement agglomerate of Vicenza Stone, type PIETRANOVA® White, Yellow or Grey or Alpi 4.0 Company GRASSI PIETRE SRL, sample to be approved by construction director, tiles dimensions MODULAR cut to size ca 80 / 60x40x2 cm or 60x60x2, honed finish, only sawn or chamfered edges on the perimeter, "buttering" glued with glue type Mapei Ultraflex S2 Mono or Adria KEDY S2 Mono or Mapei Elastorapid White on screed (the latter is excluded, and must be perfectly smooth, flush, free from cracks, made to perfection). Including expansion joints (every 25-30 square meters and in any case on all structural joints of the building) to be grouted with a special neutral white silicone or in color chosen by construction director, like Mapei Mapesil LM or by appropriate joints in brass or aluminum. Including the final grouting with pre-mixed products (type Mapei Keracolor FF) of the color chosen by the construction director.</p> <p>Including surface treatment of stone products with water-based or solvent-based water oil repellent and water-based wax company FILA.</p> <p>Measurement surface really installed.</p> <p>The price includes: measuring - supply and installation of the stone grouting - supply of glue, silicone, expansion joints - treatment - packaging – transportation.</p>
3b	<p>Exterior paving thickness 3 cm (only PIETRANOVA®) glued on screed</p> <p>Supply and installation of paving in cement agglomerate of Vicenza Stone, type PIETRANOVA® White, Yellow or Grey or Alpi 4.0 Company GRASSI PIETRE SRL, sample to be approved by construction director, tiles dimensions MODULAR cut to size ca 80 / 60x40x3 cm or 60x60x3, bush-hammered finish, only sawn or chamfered edges on the perimeter, "buttering" glued with glue type Mapei Ultraflex S2 Mono or Adria KEDY S2 Mono or Mapei Elastorapid White on screed (the latter is excluded, and must be perfectly smooth, flush, free from cracks, made to perfection). Including expansion joints (every 25-30 square meters and in any case on all structural joints of the building) to be grouted with a special neutral white silicone or in color chosen by construction director, like Mapei Mapesil LM or by appropriate joints in brass or aluminum. Including the final grouting with pre-mixed products (type Mapei Keracolor FF) of the color chosen by the construction director.</p> <p>Including surface treatment of stone products with water-based or solvent-based water oil repellent and water-based wax company FILA.</p> <p>Measurement surface really installed.</p> <p>The price includes: measuring - supply and installation of the stone grouting - supply of glue, silicone, expansion joints - treatment - packaging – transportation.</p>

3c

Interior / bathroom floor or cladding thickness 2 cm

Supply and installation of floor / cladding in cement agglomerate of Vicenza Stone, type PIETRANOVA® White, Yellow or Grey or Alpi 4.0 Company GRASSI PIETRE SRL, sample to be approved by construction director, tiles dimensions MODULAR cut to size ca 80 / 60x40x2 cm or 60x60x2, honed finish, only sawn or chamfered edges on the perimeter, "buttering" glued with glue type Mapei Ultraflex S2 Mono or Adria KEDY S2 Mono or Mapei Elastorapid White on screed or suitable substrate (the latter is excluded, and must be perfectly smooth, flush, free from cracks, made to perfection). Including expansion joints (every 25-30 square meters and in any case on all structural joints of the building) to be grouted with a special neutral white silicone or in color chosen by construction director, like Mapei Mapesil LM or by appropriate joints in brass or aluminum. Including the final grouting with pre-mixed products (type Mapei Keracolor FF) of the color chosen by the construction director.

Including surface treatment of stone products with water-based or solvent-based water oil repellent and water-based wax company FILA.

Measurement surface really installed.

The price includes: measuring - supply and installation of the stone grouting - supply of glue, silicone, expansion joints - treatment - packaging – transportation.

4. 4. Specification for stairs and skirting in Pietranova® and Alpi 4.0

Code	Product specifications
4a	<p>Classical staircase with bullnose</p> <p>Supply and installation of staircases works in cement agglomerate of Vicenza Stone, type PIETRANOVA® White, Yellow or Grey or Alpi 4.0 Company GRASSI PIETRE SRL, sample to be approved in advance by the construction director, composed of tread thickness 4 cm bullnose long edge, shaped with cushioned-edge raisers 4 cm thickness, including short edges working in bullnose where necessary, all seen sides are honed, fresh-laid with sand and cement mortar on the bottom of the concrete (the latter not included) by double coating of glue like Mapei Ultraflex S2 Mono or Adria KEDY S2 Mono or Mapei Elastorapid White.</p> <p>Including the final grouting of the stairs with pre-mixed product (like Mapei Keracolor FF) of the color chosen by the construction director. Including surface sealant of stone products with water-based or solvent based water- oil repellent and water-based wax company FILA. Measurement of actually laid linear meters:</p> <ul style="list-style-type: none"> - Treads = x1 times their length. - Shaped treads = x2 times their length. - Landings = x3 times their length. <p>The price includes: measuring cut to size list producing - supply and installation of the stone - grouting - glue supply – sealant - packaging – transportation.</p>
4b	<p>Skirting for classical staircase</p> <p>Supply, installation and sealing of skirting in one piece with slide, th 2 cm, honed surface, edge radius. Counting for each unit piece.</p>
4c	<p>Free length skirting half bull nose</p> <p>Supply, installation and sealing of free length skirting h = 10 cm, thickness 2 cm, honed surface edge radius. Measurement of linear meters actually installed.</p>

Code	Product specifications
4d	<p>Modern staircase</p> <p>Supply and installation of staircases works in cement agglomerate of Vicenza Stone, type PIETRANOVA® White, Yellow or Grey or Alpi 4.0 Company GRASSI PIETRE SRL, sample to be approved in advance by the construction director, composed of tread and riser thickness of 3 or 4 cm</p> <p>composed of tread and riser 3 cm thick installed with no overhang, honed surface, straight chamfered edges, including honing of all seen sides, fresh-laid with sand and cement mortar on the bottom of the concrete (the latter not included) by double-spread glue like Mapei Ultraflex S2 Mono or Adria KEDY S2 Mono or Mapei Elastorapid White.</p> <p>Including the final grouting of the staircase with pre-mixed product (like Mapei Keracolor FF) of the color chosen by the construction director.</p> <p>Including surface sealant of stone with water based or solvent based water-oil repellent products and waxes, company FILA.</p> <p>Measurement of actually laid linear meters:</p> <ul style="list-style-type: none"> - Treads = x1 times their length. - Fans = x2 times their length. - Landings = x3 times their length. <p>The price includes: measuring cut to size list producing - supply and installation of the stone - grouting - glue supply – sealant - packaging – transportation.</p>
4e	<p>Skirting for modern staircase</p> <p>Supply, installation and sealant of skirting in 2 pieces, th 2 cm, honed surface, straight chamfered edge.</p> <p>Count of each pair of elements</p>
4f	<p>Free length moderns skirting</p> <p>Supply, installation and sealant of free length skirting h = 8 cm, thickness 2 cm, honed surface, straight chamfered edge.</p> <p>Measurement of linear meters actually installed.</p>

5. Specification for solid elements in Pietranova® or Alpi 4.0 for frames and windows surroundings

Code	Product specification
5 a	<p>Straight and non-shaped linear elements</p> <p>Supply and installation of solid elements to create contours, profiles or frames in cement agglomerate of Vicenza Stone, type PIETRANOVA® White, Yellow or Grey or Alpi 4.0 Company GRASSI PIETRE SRL, sample to be approved in advance by the construction director, honed finish, beveled edges, laid on satin lime mortar (this excluded, to be paid by the client) using white glue like Mapei Ultraflex S2 Mono or Adria KEDY S2 Mono or Mapei Elastorapid White.</p> <p>Including the lower cut for dripnose in the sills and covers.</p> <p>Including the securing of any hooks and fixing keys (for shoulders and lintels) made of stainless steel AISI 304, fixed to the structure with epoxy mastic.</p> <p>Including grouting the joints with pre-mixed product (type Mapei Keracolor FF) of the color chosen by the construction director.</p> <p>Including surface treatment of the stone with water-based or solvent based hydro repellent products company FILA.</p> <p>The price includes: supply and installation of the stone - supply of mounting brackets - grouting - glue supply – sealant - packaging – transportation</p> <p>non-shaped linear elements.</p> <p>Measurement of the circumscribed cuboid volume.</p>
b	<p>shaped linear elements</p> <p>linear elements with a standard shape on one side for shaped frames free length. Measurement of the circumscribed cuboid volume</p>
c	<p>Lathed items (columns)</p> <p>Measurement of the circumscribed cuboid volume. Measurement of the circumscribed cuboid volume.</p>